

ABSTRACT

5 **ACOUSTIC SENSORS USING MICROSTRUCTURES TUNABLE WITH
ENERGY OTHER THAN ACOUSTIC ENERGY**

A sensor for detecting acoustic energy includes a microstructure tuned to a predetermined acoustic frequency and a device for detecting movement of the
10 microstructure. A display device is operatively linked to the movement detecting device. When acoustic energy strikes the acoustic sensor, acoustic energy having a predetermined frequency moves the microstructure, where the movement is detected by the movement detecting device.